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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,182	10/06/2003	Jerry Baack	DIX006-159	2332
		EXAMINER		
12471 Dillingham Square, #301		BUTLER, MICHAEL E		
woodbridge, v	A 22192		ART UNIT PAPER NUMBER	
			3653	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/04/2007	PAP	ER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/678,182	BAACK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael Butler	3653	
The MAILING DATE of this communication a	ppears on the cover sheet w	ith the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 01	February 2007.	·	
	nis action is non-final.		
3) Since this application is in condition for allow		ters, prosecution as to the merits is	
closed in accordance with the practice unde	•	· ·	
Disposition of Claims			
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application	20	·	
4a) Of the above claim(s) <u>19-23</u> is/are withdr			
5) Claim(s) is/are allowed.	awn nom consideration.		
6) ☐ Claim(s) <u>1,2,8-11,17 and 18</u> is/are rejected. 7) ☐ Claim(s) <u>3-7 and 12-16</u> is/are objected to.			
8) Claim(s) are subject to restriction and	Vor election requirement		
	yor election requirement.		
Application Papers			
9) The specification is objected to by the Exami	ner.	,	
10) The drawing(s) filed on is/are: a) □ a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1.☐ Certified copies of the priority docume	ints have been received		
2. ☐ Certified copies of the priority docume		application No.	
3. ☐ Copies of the certified copies of the pr		· ·	
application from the International Bure	•	Total III and Tallonal Glago	
* See the attached detailed Office action for a li	` ','	received.	
	33,000		
	·		
Attachment(s)	🗖		
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	nformal Patent Application	
Paper No(s)/Mail Date	6) 🔲 Other:	·	

Application/Control Number: 10/678,182 Page 2

Art Unit: 3653

#### **DETAILED ACTION**

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action, and apply to this and any subsequent Office Actions.

### Priority

1. Applicant's claim of priority to application 60/415745 filed 10/4/02 is made is acknowledged.

### **Drawings**

2. New drawings will be required contingent upon allowance because the drawings were objected to by the draftsman/declared informal by the applicant.

#### Election/Restriction

- 3. Applicant's election of invention I without traverse on 6/16/2006 of the restriction requirement of 5/15/2006 is acknowledged and made final.
- 4. Claims 19-23 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

;

Application/Control Number: 10/678,182 Page 3

Art Unit: 3653

6. Claim(s) 1-2, 10-11 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollock et al. 6202888 in view of Hieb '776 (7032776) wherein the former discloses the elements previously discussed and further discloses:

(Re: cl 1,10) A vending machine comprising: a cabinet frame including top, bottom, side and rear walls that collectively define a central cavity (c4 L 1-15); a door mounted to the cabinet frame for selectively closing the central cavity; a plurality of dispensing units, each of the plurality of dispensing units being adapted to receive product containers from an associated one of the plurality of stack areas (c4 L 25-44);

(Re: cl 1) a plurality of vend motors connected to the plurality of dispensing unit, each of the plurality of vend motors including a rotatable output for selectively operating a respective one of the dispensing units to dispense the product containers (c5 L 20-66); and an electronic control unit adapted to control rotation of the output of each of the plurality of vend motors through a desired vend angle, with the desired vend angle being established based on the product container to be dispensed, electronic control unit including a memory having stored therein various predetermined vend angles corresponding to known product containers, while being programmable to retain supplementary vend angles for additional product containers (c6 L 36-c7L5; c11L 25-35) (Re: cl 10) means for shifting the plurality of dispensing units through desired vend angles for dispensing of product containers from the plurality of stack areas (c5 L 20-66); and means for controlling the shifting means, said controlling means including a memory having stored therein various predetermined vend angles corresponding to known product containers, while being programmable to retain supplementary vend angles for additional product containers (c6 L 36-c7L5)

(Re: cl 2,11) wherein the desired vend angle for each of the plurality of vend motors can be individually set (C11 L 25-35).

The latter discloses any elements not inherently taught by the former including:

(Re: cl 1,10) a plurality of column walls defining a plurality of stack areas for storing columns of product containers to be vended (c6 L 36-c7L5; c11L 25-35).

It would have been obvious to take the teachings of Pollock on a columnar stack vending machine to control dispensing of cylindrical dispensate of varying selected diameter as taught by Heib '776 and come up with the instant invention.

Application/Control Number: 10/678,182

Art Unit: 3653

7. Claim(s) 1-2, 8-11 and 17-18 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollock et al. 6202888 in view of Heib '427 (6945427) wherein the former discloses the elements previously discussed and further discloses:

(Re: cl 1,10) A vending machine comprising: a cabinet frame including top, bottom, side and rear walls that collectively define a central cavity (c4 L 1-15); a door mounted to the cabinet frame for selectively closing the central cavity; a plurality of dispensing units, each of the plurality of dispensing units being adapted to receive product containers from an associated one of the plurality of stack areas (c4 L 25-44);

(Re: cl 1) a plurality of vend motors connected to the plurality of dispensing unit, each of the plurality of vend motors including a rotatable output for selectively operating a respective one of the dispensing units to dispense the product containers (c5 L 20-66); and an electronic control unit adapted to control rotation of the output of each of the plurality of vend motors through a desired vend angle, with the desired vend angle being established based on the product container to be dispensed, electronic control unit including a memory having stored therein various predetermined vend angles corresponding to known product containers, while being programmable to retain supplementary vend angles for additional product containers (c6 L 36-c7L5; c11L 25-35) (Re: cl 10) means for shifting the plurality of dispensing units through desired vend angles for dispensing of product containers from the plurality of stack areas (c5 L 20-66); and means for controlling the shifting means, said controlling means including a memory having stored therein various predetermined vend angles corresponding to known product containers, while being programmable to retain supplementary vend angles for additional product containers (c6 L 36-c7L5)

(Re: cl 2,11) wherein the desired vend angle for each of the plurality of vend motors can be individually set (C11 L 25-35).

The latter discloses any elements not inherently taught by the former including:

(Re: cl 1,10) a plurality of column walls defining a plurality of stack areas for storing columns of product containers to be vended (c4 L 5-26);

(Re: cl 8,17) wherein the electronic control unit is operable in various routines, including test, set selection depth and set package type routines (C2 L 4-15; c3 L 1-21; c3 L 44-c4 L 4; (C4 L 5-26)

(Re: cl 9,18) (8) wherein the test routine includes column vend, jog and selection switch tests (C2 L 4-15; c3 L 1-21; c3 L 44-c4 L 4; (C4 L 5-26).

It would have been obvious to take the teachings of Pollock on a columnar stack vending machine to control dispensing of cylindrical dispensate of varying selected diameter as taught by

Application/Control Number: 10/678,182

Art Unit: 3653

Heib '427 and come up with the instant invention. It would have been obvious to take the teachings of Pollock operate the machin in a mode to test, set selection depth and set package type to adjust the machine for accommodation of varying dispensate as taught by Heib '427 and come up with the instant invention. It would have been obvious for Pollock operate routines to test vend, selection switches and jog to verify the reprogrammed machine is vending properly as taught by Heib '427 and come up with the instant invention.

8. Claim(s) 1-2 and 10-11 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki 6561380 in view of Pollock et al. 6202888 wherein the former discloses:

(Re: cl 1,10) A vending machine comprising: a cabinet frame including top, bottom, side and rear walls that collectively define a central cavity (2 fig 1; c5 L 58-63); a plurality of column walls defining a plurality of stack areas for storing columns of product containers to be vended (14 fig 2; c7 L 1-16);

a door mounted to the cabinet frame for selectively closing the central cavity (c5 L 58-63);

a plurality of dispensing units, each of the plurality of dispensing units being adapted to receive product containers from an associated one of the plurality of stack areas (c8 L15-65);

(Re: cl 1) a plurality of vend motors connected to the plurality of dispensing unit, each of the plurality of vend motors including a rotatable output for selectively operating a respective one of the dispensing units to dispense the product containers (c9 L 1-18) (Re: cl 2,11) wherein the desired vend angle for each of the plurality of vend motors can be individually set (c9 L 35-67).

The latter discloses any elements not inherently taught by the former including:

and an electronic control unit adapted to control rotation of the output of each of the plurality of vend motors through a desired vend angle, with the desired vend angle being established based on the product container to be dispensed, electronic control unit including a memory having stored therein various predetermined vend angles corresponding to known product containers, while being programmable to retain supplementary vend angles for additional product containers (c6 L 36-c7L5; c11L 25-35).

It would have been obvious for Suzuki to substitute the rotary disc programmable angle selections with an electronic controller because an electronic control makes reprogramming

Art Unit: 3653

easier and faster than opening a machine up to adjust control discs as taught by Pollock and come up with the instant invention.

9. Claim(s) 1-2, 10-11 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over Pollock et al. 6202888 in view of Feltrin '823 (5799823) wherein the former discloses the elements previously discussed and the latter discloses any elements not inherently taught by the former including:

(Re: cl 1,10) a plurality of column walls defining a plurality of stack areas for storing columns of product containers to be vended (c3 L 1-11)

It would have been obvious to take the teachings of Pollock on a columnar stack vending machine to control dispensing of cylindrical dispensate of varying selected diameter as taught by Feltrin and come up with the instant invention.

## Allowable Subject Matter

10. Claims 3-7 and 12-16 are objected to as being dependent claims premised upon a rejected base claim but would be allowed if the re-written in independent form or if the limitations of an allowable claim were incorporated within the independent base claim from which this claims depend or if re-written premised upon dependence from an otherwise allowable base claim.

### Response to Arguments

11. The applicant's arguments have been fully considered but they are unpersuasive in overcoming the rejections.

Regarding Pollock, a stack may be either horizontally or vertically oriented. The factory programming argument is a red herring as programming at the factory is still programming.

Further, supplementary vend angles are found in col. 11 25-35. Pollock discusses

Art Unit: 3653

reprogramming of the vend angles based upon real sensing information as well as different sized dispensate. The reference discloses a motor for shifting the dispensing unit and a microprocessor for controlling said dispensing as per applicant's dispensing. MPEP 2182 says means plus function language requires the same or equivalent function.

Means for Shifting dispensing units: motor. Means for Controlling the shifting: microprocessor. The same functions claimed are performed in the reference. Applicant's broadest structure capable of performing the function is found in the reference. And the vend angles are stored in memory as claimed.

Regarding Heib '427, the vending machine tests by using vend detectors to determine if the depth has been set correctly (C4 L 5-26).

Regarding Suzuki in view of Pollock et al., Pollock et al. as previously discussed, programs the desired vend angles from its empirically determined angles and stores it.

#### Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

Application/Control Number: 10/678,182 Page 8

Art Unit: 3653

however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Exmr. Michael E. Butler whose telephone number is (571) 272-6937.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey, can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MEK 3/29/07

> PATRICK MACKEY SUPERVISORY PATENT EXAMINER TECHNOLOGY GENTER 3600